Computing

Archives for Informatics and Numerical Computation
Archiv für Informatik und Numerik

Editorial Board / Herausgeber-Kollegium

R. Albrecht, Innsbruck
R. L. Constable, Ithaca, N. Y.
W. Händler, Erlangen
W. Knödel, Stuttgart
W. L. Miranker, Yorktown Heights, N. Y.
H. J. Stetter, Wien

Advisory Board / Fachbeirat

G. Alefeld, Karlsruhe
R. Ansorge, Hamburg
H. Brunner, Fribourg
R. E. Burkard, Graz
L. Collatz, Hamburg
W. H. Enright, Toronto
K. Mehlhorn, Saarbrücken
J. R. Mühlbacher, Linz
K. Nickel, Freiburg i. Br.
J. W. Schmidt, Dresden
H. J. Schneider, Erlangen
T. G. Szymanski, Murray Hill, N. J.
G. Tinhofer, München
W. Törnig, Darmstadt
G. Vinek, Wien
Hj. Wacker, Linz
H. Werner, Bonn
H. Wettstein, Karlsruhe

Editorial Assistants / Redaktionssekretäre

H. Lehner and E. Weinmüller, Wien

Vol 32, 1984

ISSN 0010-485X

Springer-Verlag Wien New York

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions including microform is transferred to the publisher.

Alle Rechte, einschließlich das der Übersetzung in fremde Sprachen und das der photomechanischen Wiedergabe oder einer sonstigen Vervielfältigung, auch in Mikroform, vorbehalten.

© 1984 by Springer-Verlag/Wien

Contents / Inhalt

Contributed Papers / Originalarbeiten

Abdullah, A. R., s. Evans, D. J.

Atkinson, H. H., Gargantini, I., Ramanath, M. V. S.: Determination of the 3 D Border by Repeated Elimination of Internal Surfaces .. 279–295

Bellen, A., Zennaro, M.: A Collocation Method for Boundary Value Problems of Differential Equations with Functional Arguments... 307–318

Bozzini, M., De Tisi, F., Lenarduzzi, L.: An Approximation Method of the Local Type. Application to a Problem of Heart Potential Mapping 69– 80

Danilović, D., s. Jovanović, A.

De Tisi, F., s. Bozzini, M.

Devroye, L.: Random Variate Generation for Unimodal and Monotone Densities..... 43– 68

Dierckx, P.: Algorithms for Smoothing Data on the Sphere with Tensor Product Splines 319–342

Evans, D. J.: On Preconditioned Iterative Methods for Solving $(A-\lambda B)x=0$..... 139–152

Evans, D. J., Abdullah, A. R.: The Group Explicit Method for the Solution of Burger's Equation 239–253

Frank, R., Macsek, F., Ueberhuber, C. W.: Asymptotic Error Expansions for Defect Correction Iterates..... 115–125

Gargantini, I., s. Atkinson, H. H.

Gfrerer, H.: Globally Convergent Decomposition Methods for Nonconvex Optimization Problems..... 199–227

Haverkamp, R.: Zur Konvergenz der Ableitungen von Interpolationspolynomen..... 343–355

Jovanović, A., Danilović, D.: A New Algorithm for Solving the Tree Isomorphism Problem 187–198

Krawczyk, R.: Interval Iterations for Including a Set of Solutions. 13– 31

Lenarduzzi, L., s. Bozzini, M.

Lipitakis, E. A.: Generalized Extended to the Limit Sparse Factorization Techniques for Solving Unsymmetric Finite Element Systems 255–270

Macsek, F., s. Frank, R.

Menzel, R., Pönisch, G.: A Quadratically Convergent Method for Computing Simple Singular Roots and Its Application to Determining Simple Bifurcation Points 127–138

Miranker, W. L., Winkler, A.: Spacetime Representations of Computational Structures 93–114

Pönisch, G., s. Menzel, R.

Ramanath, M. V. S., s. Atkinson, H. H.

Schmidt, J. W., Schneider, H.: Enclosing Methods in Perturbed Nonlinear Operator Equations 1– 11

Schneider, H., s. Schmidt, J. W.

Scholz, R.: Numerical Solution of the Obstacle Problem by the Penalty Method 297–306

Ueberhuber, C. W., s. Frank, R.

van Veldhuizen, M.: D-Stability and Kaps-Rentrop-Methods 229–237

Wallach, Y.: On Two More Eigenvalue Methods for an Alternating Sequential Parallel System 33– 41

Winkler, A., s. Miranker, W. L.

Zennaro, M., s. Bellen, A.

Ziętak, K.: The l_p-Solution of the Linear Matrix Equation $AX+YB=C$ 153–162

Short Communications / Kurze Mitteilungen

Branders, Maria, s. Piessens, R.

Dagnino, Catterina, Fiorentino, Cinzia: Computation of Nodes and Weights of Extended Gaussian Rules 271–278

Fiorentino, Cinzia, s. Dagnino, Catterina

Freeden, W., Reuter, R.: Exact Computation of Spherical Harmonics 365–378

Hewgill, D. E.: Computing Surfaces of Constant Mean Curvature with Singularities 81– 92

Neta, B., Victory, jr., H. D.: A Higher Order Method for Determining Nonisolated Solutions of a System of Nonlinear Equations 163–166

Piessens, R., Branders, Maria: Computation of Fourier Transform Integrals Using Chebyshev Series Expansions 177–186

Reuter, R., s. Freeden, W.

Sideridis, A. B.: A Numerical Solution of the Membrane Eigenvalue Problem. 167–176

Toussaint, G. T.: An Optimal Algorithm for Computing the Minimum Vertex Distance Between Two Crossing Convex Polygons. 357–364

Victory, jr., H. D., s. Neta, B.

Listed in Current Contents